What is claimed is:

1. A molded motor having a motor frame molded by covering a stator composed by a straight core with a molding resin, the straight core comprising a stack of laminas each having a plurality of tees projecting from one long side of a belt-shaped back yoke and a V-shaped cut formed between every two adjoining tees along the back yoke and on its side from which the tees project, the straight core having an insulating layer formed by pre-molding from an insulating resin on its portions excluding at least the inner periphery of each tee, the straight core further having a winding wound about each tee having the insulating layer formed thereon, the stator being formed by bending the straight core at the cuts into an arcuate or annular shape, and joining the opposite ends of the back yokes to each other by welding or adhesion.

2. The molded motor according to claim 1, wherein the joined ends of each back yoke are shaped like a crank.

3. The molded motor according to claim 1, wherein the motor frame is molded about the longitudinal axis of the stator by covering the entire outline of the stator excluding its inside diametrical portion with the molding resin.

4. The molded motor according to claim 1, wherein the molding resin is an insulating resin, or premix.

5. The molded motor according to claim 1, wherein a wiring circuit board is embedded in the motor frame.

6. The molded motor according to claim 1, wherein a wiring circuit board is embedded in the motor frame and the straight core has a plurality of supports, as well as the insulating layer, pre-molded on one side thereof for mounting the wiring circuit board.

7. The molded motor according to claim 6, wherein positioning projections protrude from the supports for positioning the wiring circuit board held therebetween.

8. The molded motor according to claim 1, wherein the straight core has a covering, as well as the insulating layer, pre-molded on one side of the back yoke thereof, a plurality of binding pins projecting from the covering for wiring the winding.

9. The molded motor according to claim 8, wherein the binding pins are formed on the back yoke situated on the outer periphery of the first to third tees from the tee at either end of the straight core.

10. The molded motor according to claim 8, wherein the binding pins include a neutral point binding pin formed on the back yoke situated on the outer periphery of one of the first to third tees from the tee at one end of the straight core, while the binding pin for each phase is formed on the back yoke situated on the outer periphery of one of the first to third tees from the tee at the other end of the straight core, or a plurality of such tees.

11. The molded motor according to claim 1, wherein it is a

brushless DC motor.

12. The molded motor according to claim 1, wherein the number of the tees is 12.

13. The molded motor according to claim 11, wherein the brushless DC motor is a three-phase one, the number of the tees is 12, and a U-phase winding is wound about the first, fourth, seventh and tenth tees from the tee at either end of the straight core, a V-phase winding about the second, fifth, eighth and eleventh tees and a W-phase winding about the third, sixth, ninth and twelfth tees.

14. The molded motor according to claim 1, wherein it is a motor for an air conditioner, pump, washing machine, or air cleaner.